

PHE450

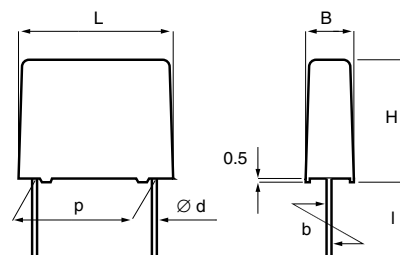
- Double metallized film pulse capacitor, polypropylene dielectric
- According to IEC 60384-17 Grade 1.1
- Small sizes
- Replacing PHE427, PHE428

TYPICAL APPLICATIONS

High frequency applications with high current stress, such as deflection circuits in TV-sets, protection circuits in SMPS and in electronic ballasts.

CONSTRUCTION

Polypropylene dielectric with double metallized polyester film as electrodes. Encapsulation in self-extinguishing material meeting the requirements of UL 94V-0.



TECHNICAL DATA

Rated voltage U_R, VDC	250	400	630	1000	1600	2000	2500
Rated voltage U_R, VAC	180	250	300/400	375/600	650	700	900
Capacitance range	330pF– 6.8µF	330pF– 4.7µF	330pF– 2.7µF	330pF– 1.2µF	2.7nF– 0.82µF	1.0nF– 0.39µF	1nF– 39nF

Capacitance values In accordance with IEC E12 series.

Capacitance tolerance ±5% standard. Other tolerances on request

Category temperature range –55° C to +105° C

Rated temperature +85° C

Voltage derating The rated voltage is decreased with 1.3% / ° C between +85° C and +105° C

Climatic category 55/105/56

Test voltage between terminals The 100 % factory test is carried out at 1.6 x U_R VDC

Insulation resistance Measured at 23° C, 100 VDC 60s for $U_R < 500$ VDC and at 500 VDC for $U_R \geq 500$ VDC
Between terminals:
 $C \leq 0.33 \mu\text{F}$: $\geq 100\,000\, \text{M}\Omega$
 $C > 0.33 \mu\text{F}$: $\geq 30\,000\, \text{s}$
Between terminals and case:
 $\geq 100\,000\, \text{M}\Omega$

Dissipation factor $\tan\delta$	Maximum values at 23°C		
		$C \leq 0.1 \mu\text{F}$	$0.1 \mu\text{F} < C \leq 1.0 \mu\text{F}$
			$C > 1.0 \mu\text{F}$
	1 kHz	0.03 %	0.03 %
	10 kHz	0.04 %	0.06 %
	100 kHz	0.15 %	–

Inductance Approximately 6 nH/cm for the total length of capacitor winding and the leads.

Pulse rise time The capacitors can withstand an unlimited number of pulses with a dU/dt according to the article table. For peak to peak voltages lower than the rated voltage ($U_{pp} < U_R$), the specified dU/dt can be multiplied by U_R/U_{pp} .

p	d	std l	max l	b
7.5 ± 0.4	0.6	5 ⁻¹	30	± 0.4
10.0 ± 0.4	0.6	5 ⁻¹	30	± 0.4
15.0 ± 0.4	0.8	6 ⁻¹	30	± 0.4
22.5 ± 0.4	0.8	6 ⁻¹	30	± 0.4
27.5 ± 0.4	0.8	6 ⁻¹	30	± 0.4
37.5 ± 0.5	1.0	6 ⁻¹	30	± 0.7

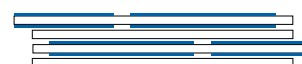
Three different winding constructions are used, depending on voltage and lead spacing. They are specified in the article table.



1 section construction



2 section construction

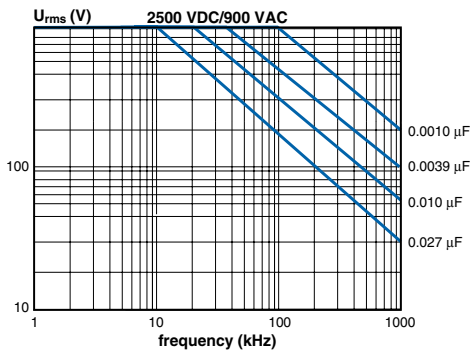
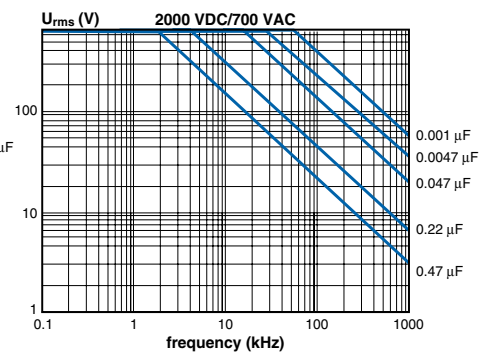
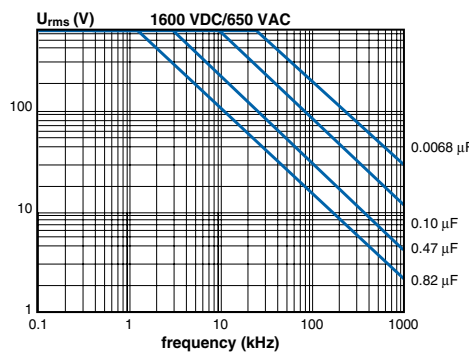
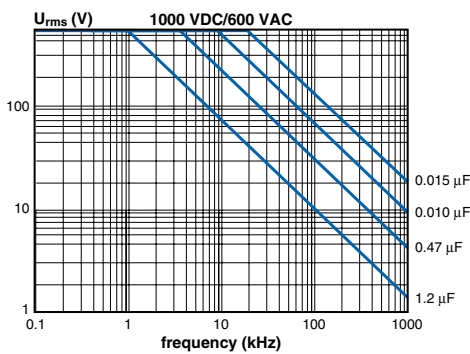
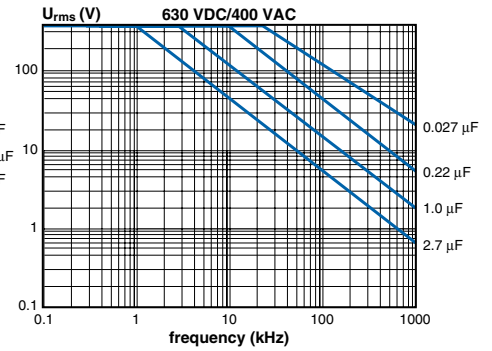
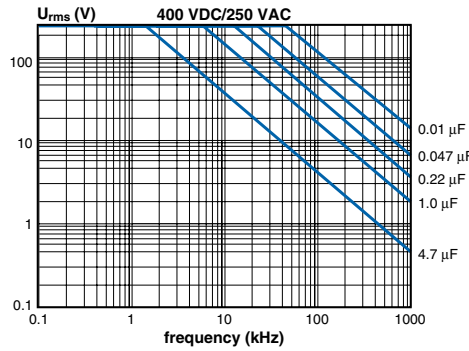
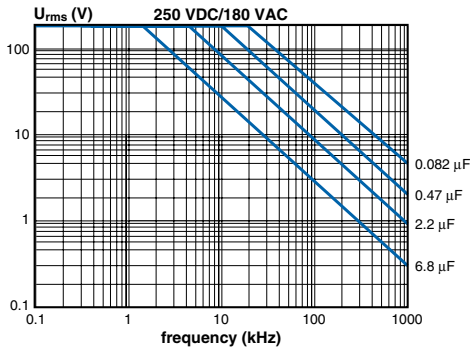


3 section construction

ENVIRONMENTAL TEST DATA

According to IEC 60384-17, Grade 1.1 and Quality tests and requirements for Pulse Capacitors in the Evox Rifa Film Capacitors catalogue.

DERATING OF U_{RMS} VS FREQUENCY, +85°C AMBIENT TEMPERATURE AND 10°C INTERNAL HEATING, TYPICAL VALUES



MARKING

- RIFA
- Article code
- Rated capacitance according to IEC 60062
- Rated voltage
- Capacitance tolerance code
- Manufacturing code (year, month)

ORDERING INFORMATION

The article code for the standard part is given in the article table.
For other options, see page 21.

PACKING

The box dimensions for bulk packaging are 245 x 145 x 80 mm. Quantity/package as in article table, based on standard lead length. Reels with taped capacitors are packed 10 in a box with the dimensions 370 x 370 x 560 mm. Quantity per reel as in article table. The standard quantity/reel is for 360 mm reel. If 500 mm reel is required, it must be specified when ordering and the quantity is 2 x the given quantity.

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package				Weight	Max dU/dt V/μs	Rthha °C/W 85 °C 0.2 m/s	Article code
	B	H	L	p	Bulk	Tray	Reel	Ammo	g			
250 VDC /180 VAC (1 section winding construction)												
LEAD SPACING 7.5 MM												
0.00033	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK3330JR05
0.00039	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK3390JR05
0.00047	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK3470JR05
0.00056	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK3560JR05
0.00068	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK3680JR05
0.00082	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK3820JR05
0.0010	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK4100JR05
0.0012	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK4120JR05
0.0015	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK4150JR05
0.0018	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK4180JR05
0.0022	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK4220JR05
0.0027	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK4270JR05
0.0033	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK4330JR05
0.0039	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450HK4390JR05
0.0047	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450HK4470JR05
0.0056	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450HK4560JR05
0.0068	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450HK4680JR05
0.0082	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450HK4820JR05
0.010	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1200	160	PHE450HK5100JR05
0.012	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1200	160	PHE450HK5120JR05
0.015	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	800	160	PHE450HK5150JR05
0.018	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	800	160	PHE450HK5180JR05
0.022	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	800	160	PHE450HK5220JR05
0.027	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	800	160	PHE450HK5270JR05
0.033	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	800	160	PHE450HK5330JR05
0.039	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	800	160	PHE450HK5390JR05
0.047	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	800	160	PHE450HK5470JR05
0.056	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	800	160	PHE450HK5560JR05
0.068	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	800	160	PHE450HK5680JR05
LEAD SPACING 10 MM												
0.0010	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4100JR05
0.0012	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4120JR05
0.0015	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4150JR05
0.0018	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4180JR05
0.0022	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4220JR05
0.0027	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4270JR05
0.0033	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4330JR05
0.0039	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4390JR05
0.0047	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4470JR05
0.0056	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4560JR05
0.0068	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450HA4680JR05
0.0082	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450HA4820JR05
0.010	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450HA5100JR05
0.012	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450HA5120JR05
0.015	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450HA5150JR05
0.018	4.0	9.0	13.0	10.0	1000		900		0.6	1100	142	PHE450HA5180JR05
0.022	4.0	9.0	13.0	10.0	1000		900		0.6	1100	142	PHE450HA5220JR05
0.027	4.0	9.0	13.0	10.0	1000		900		0.6	1100	142	PHE450HA5270JR05
0.033	4.0	9.0	13.0	10.0	1000		900		0.6	700	142	PHE450HA5330JR05
0.039	4.0	9.0	13.0	10.0	1000		900		0.6	700	142	PHE450HA5390JR05
0.047	4.0	9.0	13.0	10.0	1000		900		0.6	700	142	PHE450HA5470JR05
0.056	4.5	10.5	13.0	10.0	1000		800		0.9	700	122	PHE450HA5560JR05
0.068	4.5	10.5	13.0	10.0	1000		800		0.9	700	122	PHE450HA5680JR05
0.082	5.0	11.0	13.0	10.0	800		700		1.0	700	116	PHE450HA5820JR05
0.100	6.0	12.0	13.0	10.0	600		500		1.3	700	105	PHE450HA6100JR05
0.120	6.0	12.0	13.0	10.0	600		500		1.3	700	105	PHE450HA6120JR05

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package				Weight	Max dU/dt V/μs	Rthha °C/W 85 °C 0.2 m/s	Article code
	B	H	L	p	Bulk	Tray	Reel	Ammo	g			
250 VDC /180 VAC (1 section)												
LEAD SPACING 15 MM												
0.047	5.5	10.5	18.0	15.0	1000		600		1.5	1000	100	PHE450HB5470JR06
0.056	5.5	10.5	18.0	15.0	1000		600		1.5	1000	100	PHE450HB5560JR06
0.068	5.5	10.5	18.0	15.0	1000		600		1.5	1000	100	PHE450HB5680JR06
0.082	5.5	10.5	18.0	15.0	1000		600		1.5	600	101	PHE450HB5820JR06
0.10	5.5	10.5	18.0	15.0	1000		600		1.5	600	100	PHE450HB6100JR06
0.12	5.5	10.5	18.0	15.0	1000		600		1.5	600	99	PHE450HB6120JR06
0.15	5.5	12.5	18.0	15.0	1000		600		1.7	600	85	PHE450HB6150JR06
0.18	6.5	12.5	18.0	15.0	1000		500		2.0	600	83	PHE450HB6180JR06
0.22	7.5	14.5	18.0	15.0	800		400		2.7	600	74	PHE450HB6220JR06
0.27	7.5	14.5	18.0	15.0	800		400		2.7	600	73	PHE450HB6270JR06
0.33	8.0	15.0	18.0	15.0	600		400		3.0	600	67	PHE450HB6330JR06
0.39	8.5	16.0	18.0	15.0	600		400		3.4	600	65	PHE450HB6390JR06
0.47	9.5	17.5	18.0	15.0	500		350		4.2	600	60	PHE450HB6470JR06
LEAD SPACING 22.5 MM												
0.18	6.5	14.5	26.0	22.5		234			3.2	600	58	PHE450HD6180JR06L2
0.22	6.5	14.5	26.0	22.5		234			3.2	400	60	PHE450HD6220JR06L2
0.27	6.5	14.5	26.0	22.5		234			3.2	400	59	PHE450HD6270JR06L2
0.33	6.5	14.5	26.0	22.5		234			3.2	400	58	PHE450HD6330JR06L2
0.39	7.0	16.5	26.0	22.5		216			3.9	400	54	PHE450HD6390JR06L2
0.47	7.0	16.5	26.0	22.5		216			3.9	400	53	PHE450HD6470JR06L2
0.56	9.0	18.5	26.0	22.5		168			5.6	400	49	PHE450HD6560JR06L2
0.68	9.0	18.5	26.0	22.5		168			5.6	400	47	PHE450HD6680JR06L2
0.82	10.5	19.0	26.0	22.5		264			6.7	400	43	PHE450HD6820JR06L2
1.0	11.0	21.5	26.0	22.5		253			8.0	400	40	PHE450HD7100JR06L2
1.2	13.5	23.0	26.0	22.5		209			10.0	400	38	PHE450HD7120JR06L2
1.5	13.5	23.0	26.0	22.5		209			10.0	400	36	PHE450HD7150JR06L2
LEAD SPACING 27.5 MM												
0.82	10.5	20.5	31.5	27.5		216			8.0	300	38	PHE450HF6820JR06L2
1.0	10.5	20.5	31.5	27.5		216			8.0	300	38	PHE450HF7100JR06L2
1.2	10.5	20.5	31.5	27.5		216			8.0	300	37	PHE450HF7120JR06L2
1.5	11.5	22.5	31.5	27.5		198			10.6	300	34	PHE450HF7150JR06L2
1.8	13.5	23.0	31.5	27.5		171			12.7	300	32	PHE450HF7180JR06L2
2.2	14.5	24.5	31.5	27.5		153			14.5	300	31	PHE450HF7220JR06L2
2.7	17.5	28.0	31.5	27.5		126			19.7	300	27	PHE450HF7270JR06L2
3.3	19.0	29.0	31.5	27.5		117			22.1	300	25	PHE450HF7330JR06L2
3.9	21.0	30.0	31.5	27.5		108			25.3	300	23	PHE450HF7390JR06L2
LEAD SPACING 37.5 MM												
1.8	13.0	24.0	41.0	37.5		140			16.6	200	28	PHE450HR7180JR06L2
2.2	13.0	24.0	41.0	37.5		140			16.6	200	28	PHE450HR7220JR06L2
2.7	13.0	24.0	41.0	37.5		140			16.6	200	27	PHE450HR7270JR06L2
3.3	15.0	26.0	41.0	37.5		119			20.8	200	25	PHE450HR7330JR06L2
3.9	16.5	32.0	41.0	37.5		105			28.1	200	22	PHE450HR7390JR06L2
4.7	16.5	32.0	41.0	37.5		105			28.1	200	22	PHE450HR7470JR06L2
5.6	19.0	36.0	41.0	37.5		91			36.5	200	18	PHE450HR7560JR06L2
6.8	21.0	38.0	41.0	37.5		84			42.5	200	17	PHE450HR7680JR06L2
400 VDC / 250 VAC (1 section)												
LEAD SPACING 7.5 MM												
0.00033	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK3330JR05
0.00039	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK3390JR05
0.00047	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK3470JR05
0.00056	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK3560JR05
0.00068	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK3680JR05
0.00082	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK3820JR05
0.0010	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK4100JR05

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package				Weight	Max dU/dt V/μs	Rthha °C/W 85 °C 0.2 m/s	Article code
	B	H	L	p	Bulk	Tray	Reel	Ammo	g			
400 VDC / 250 VAC (1 section)												
LEAD SPACING 7.5 MM												
0.0012	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK4120JR05
0.0015	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK4150JR05
0.0018	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK4180JR05
0.0022	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK4220JR05
0.0027	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK4270JR05
0.0033	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK4330JR05
0.0039	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450KK4390JR05
0.0047	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450KK4470JR05
0.0056	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450KK4560JR05
0.0068	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450KK4680JR05
0.0082	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450KK4820JR05
0.010	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1200	160	PHE450KK5100JR05
0.012	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1200	160	PHE450KK5120JR05
0.015	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	1200	160	PHE450KK5150JR05
0.018	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	1200	160	PHE450KK5180JR05
0.022	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	1200	160	PHE450KK5220JR05
0.027	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	1200	160	PHE450KK5270JR05
0.033	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	1200	160	PHE450KK5330JR05
0.039	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	1200	160	PHE450KK5390JR05
0.047	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	1200	160	PHE450KK5470JR05
LEAD SPACING 10 MM												
0.0010	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4100JR05
0.0012	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4120JR05
0.0015	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4150JR05
0.0018	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4180JR05
0.0022	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4220JR05
0.0027	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4270JR05
0.0033	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4330JR05
0.0039	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4390JR05
0.0047	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4470JR05
0.0056	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4560JR05
0.0068	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450KA4680JR05
0.0082	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450KA4820JR05
0.010	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450KA5100JR05
0.012	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450KA5120JR05
0.015	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450KA5150JR05
0.018	4.0	9.0	13.0	10.0	1000		900		0.6	1100	142	PHE450KA5180JR05
0.022	4.0	9.0	13.0	10.0	1000		900		0.6	1100	142	PHE450KA5220JR05
0.027	4.0	9.0	13.0	10.0	1000		900		0.6	1100	142	PHE450KA5270JR05
0.033	4.5	10.5	13.0	10.0	1000		800		0.9	1100	122	PHE450KA5330JR05
0.039	5.0	11.0	13.0	10.0	800		700		1.0	1100	116	PHE450KA5390JR05
0.047	6.0	12.0	13.0	10.0	600		500		1.3	1100	105	PHE450KA5470JR05
0.056	6.0	12.0	13.0	10.0	600		500		1.3	1100	105	PHE450KA5560JR05
LEAD SPACING 15 MM												
0.033	5.5	10.5	18.0	15.0	1000		600		1.5	2500	100	PHE450KB5330JR06
0.039	5.5	10.5	18.0	15.0	1000		600		1.5	1000	100	PHE450KB5390JR06
0.047	5.5	10.5	18.0	15.0	1000		600		1.5	1000	100	PHE450KB5470JR06
0.056	5.5	10.5	18.0	15.0	1000		600		1.5	1000	100	PHE450KB5560JR06
0.068	5.5	10.5	18.0	15.0	1000		600		1.5	1000	100	PHE450KB5680JR06
0.082	5.5	12.5	18.0	15.0	1000		600		1.7	1000	99	PHE450KB5820JR06
0.10	6.5	12.5	18.0	15.0	1000		500		2.0	1000	85	PHE450KB6100JR06
0.12	7.5	14.5	18.0	15.0	800		400		2.7	1000	75	PHE450KB6120JR06
0.15	7.5	14.5	18.0	15.0	800		400		2.7	1000	75	PHE450KB6150JR06
0.18	8.0	15.0	18.0	15.0	600		400		3.0	1000	71	PHE450KB6180JR06
0.22	9.5	17.5	18.0	15.0	500		350		4.2	1000	60	PHE450KB6220JR06
0.27	9.5	17.5	18.0	15.0	500		350		4.2	1000	59	PHE450KB6270JR06

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package				Weight	Max dU/dt	Rthha °C/W 85 °C	Article code
	B	H	L	p	Bulk	Tray	Reel	Ammo	g	V/μs	0.2 m/s	
400 VDC / 250 VAC (1 section)												
LEAD SPACING 22.5 MM												
0.12	6.5	14.5	26.0	22.5			234		3.2	600	58	PHE450KD6120JR06L2
0.15	6.5	14.5	26.0	22.5			234		3.2	600	58	PHE450KD6150JR06L2
0.18	6.5	14.5	26.0	22.5			234		3.2	600	58	PHE450KD6180JR06L2
0.22	7.0	16.5	26.0	22.5			216		3.9	600	52	PHE450KD6220JR06L2
0.27	7.0	16.5	26.0	22.5			216		3.9	600	52	PHE450KD6270JR06L2
0.33	9.0	18.5	26.0	22.5			168		5.6	600	48	PHE450KD6330JR06L2
0.39	9.0	18.5	26.0	22.5			168		5.6	600	48	PHE450KD6390JR06L2
0.47	10.5	19.0	26.0	22.5			264		6.7	600	45	PHE450KD6470JR06L2
0.56	11.0	21.5	26.0	22.5			253		8.0	600	40	PHE450KD6560JR06L2
0.68	13.5	23.0	26.0	22.5			209		10.0	600	35	PHE450KD6680JR06L2
0.82	13.5	23.0	26.0	22.5			209		10.0	600	35	PHE450KD6820JR06L2
1.0	15.5	24.5	26.0	22.5			176		12.0	600	33	PHE450KD7100JR06L2
LEAD SPACING 27.5 MM												
0.47	10.5	20.5	31.5	27.5			216		8.0	500	38	PHE450KF6470JR06L2
0.56	10.5	20.5	31.5	27.5			216		8.0	500	38	PHE450KF6560JR06L2
0.68	10.5	20.5	31.5	27.5			216		8.0	500	38	PHE450KF6680JR06L2
0.82	11.5	22.5	31.5	27.5			198		10.6	500	34	PHE450KF6820JR06L2
1.0	13.5	23.0	31.5	27.5			171		12.7	500	32	PHE450KF7100JR06L2
1.2	14.5	24.5	31.5	27.5			153		14.5	500	30	PHE450KF7120JR06L2
1.5	17.5	28.0	31.5	27.5			126		19.7	500	27	PHE450KF7150JR06L2
1.8	19.0	29.0	31.5	27.5			117		22.1	500	25	PHE450KF7180JR06L2
2.2	21.0	30.0	31.5	27.5			108		25.3	500	24	PHE450KF7220JR06L2
LEAD SPACING 37.5 MM												
1.0	13.0	24.0	41.0	37.5			140		16.6	300	27	PHE450KR7100JR06L2
1.2	13.0	24.0	41.0	37.5			140		16.6	300	27	PHE450KR7120JR06L2
1.5	13.0	24.0	41.0	37.5			140		16.6	300	27	PHE450KR7150JR06L2
1.8	15.0	26.0	41.0	37.5			119		20.8	300	25	PHE450KR7180JR06L2
2.2	16.5	32.0	41.0	37.5			105		28.1	300	22	PHE450KR7220JR06L2
2.7	16.5	32.0	41.0	37.5			105		28.1	300	22	PHE450KR7270JR06L2
3.3	19.0	36.0	41.0	37.5			91		36.5	300	19	PHE450KR7330JR06L2
3.9	19.0	36.0	41.0	37.5			91		36.5	300	19	PHE450KR7390JR06L2
4.7	21.0	38.0	41.0	37.5			84		42.5	300	17	PHE450KR7470JR06L2
630 VDC / 300 VAC (1 section)												
LEAD SPACING 7.5 MM												
0.00033	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK3330JR05
0.00039	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK3390JR05
0.00047	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK3470JR05
0.00056	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK3560JR05
0.00068	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK3680JR05
0.00082	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK3820JR05
0.0010	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK4100JR05
0.0012	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK4120JR05
0.0015	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK4150JR05
0.0018	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK4180JR05
0.0022	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK4220JR05
0.0027	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK4270JR05
0.0033	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK4330JR05
0.0039	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450MK4390JR05
0.0047	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450MK4470JR05
0.0056	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450MK4560JR05
0.0068	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450MK4680JR05
0.0082	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	1400	160	PHE450MK4820JR05
0.010	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	1400	160	PHE450MK5100JR05
0.012	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	1400	160	PHE450MK5120JR05

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package				Weight	Max dU/dt V/μs	Rthha °C/W 85 °C 0.2 m/s	Article code
	B	H	L	p	Bulk	Tray	Reel	Ammo	g			
630 VDC / 300 VAC (1 section)												
LEAD SPACING 7.5 MM												
0.015	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	1400	160	PHE450MK5150JR05
0.018	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	1400	160	PHE450MK5180JR05
0.022	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	1400	160	PHE450MK5220JR05
LEAD SPACING 10 MM												
0.0010	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4100JR05
0.0012	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4120JR05
0.0015	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4150JR05
0.0018	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4180JR05
0.0022	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4220JR05
0.0027	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4270JR05
0.0033	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4330JR05
0.0039	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4390JR05
0.0047	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4470JR05
0.0056	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4560JR05
0.0068	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450MA4680JR05
0.0082	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450MA4820JR05
0.010	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450MA5100JR05
0.012	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450MA5120JR05
0.015	4.0	9.0	13.0	10.0	1000		900		0.6	1200	142	PHE450MA5150JR05
0.018	4.5	10.5	13.0	10.0	1000		800		0.9	1200	122	PHE450MA5180JR05
0.022	4.5	10.5	13.0	10.0	1000		800		0.9	1200	122	PHE450MA5220JR05
0.027	5.0	11.0	13.0	10.0	800		700		1.0	1200	116	PHE450MA5270JR05
0.033	6.0	12.0	13.0	10.0	600		500		1.3	1200	105	PHE450MA5330JR05
0.039	6.0	12.0	13.0	10.0	600		500		1.3	1200	105	PHE450MA5390JR05
630 VDC / 400 VAC (2 section)												
LEAD SPACING 15 MM												
0.010	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450MB5100JR06
0.012	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450MB5120JR06
0.015	5.5	10.5	18.0	15.0	1000		600		1.5	2500	100	PHE450MB5150JR06
0.018	5.5	10.5	18.0	15.0	1000		600		1.5	2500	100	PHE450MB5180JR06
0.022	5.5	10.5	18.0	15.0	1000		600		1.5	2500	100	PHE450MB5220JR06
0.027	5.5	10.5	18.0	15.0	1000		600		1.5	2500	100	PHE450MB5270JR06
0.033	5.5	10.5	18.0	15.0	1000		600		1.5	2500	100	PHE450MB5330JR06
0.039	5.5	12.5	18.0	15.0	1000		600		1.7	2500	90	PHE450MB5390JR06
0.047	6.5	12.5	18.0	15.0	1000		500		2.0	2500	85	PHE450MB5470JR06
0.056	6.5	12.5	18.0	15.0	1000		500		2.0	2500	85	PHE450MB5560JR06
0.068	7.5	14.5	18.0	15.0	800		400		2.7	2500	75	PHE450MB5680JR06
0.082	8.0	15.0	18.0	15.0	600		400		3.0	2500	72	PHE450MB5820JR06
0.10	8.5	16.0	18.0	15.0	600		400		3.4	2500	70	PHE450MB6100JR06
0.12	9.5	17.5	18.0	15.0	500		350		4.2	2500	61	PHE450MB6120JR06
0.15	9.5	17.5	18.0	15.0	500		350		4.2	2500	61	PHE450MB6150JR06
LEAD SPACING 22.5 MM												
0.033	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450MD5330JR06L2
0.039	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450MD5390JR06L2
0.047	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450MD5470JR06L2
0.056	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450MD5560JR06L2
0.068	6.5	14.5	26.0	22.5		234			3.2	1800	59	PHE450MD5680JR06L2
0.082	6.5	14.5	26.0	22.5		234			3.2	1800	59	PHE450MD5820JR06L2
0.10	6.5	14.5	26.0	22.5		234			3.2	1800	59	PHE450MD6100JR06L2
0.12	7.0	16.5	26.0	22.5		216			3.9	1800	55	PHE450MD6120JR06L2
0.15	7.0	16.5	26.0	22.5		216			3.9	1800	55	PHE450MD6150JR06L2
0.18	9.0	18.5	26.0	22.5		168			5.6	1800	50	PHE450MD6180JR06L2
0.22	9.0	18.5	26.0	22.5		168			5.6	1800	50	PHE450MD6220JR06L2
0.27	11.0	21.5	26.0	22.5		253			8.0	1800	45	PHE450MD6270JR06L2
0.33	11.0	21.5	26.0	22.5		253			8.0	1800	45	PHE450MD6330JR06L2

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package				Weight	Max dU/dt	Rthha °C/W	Article code
	B	H	L	p	Bulk	Tray	Reel	Ammo	g	V/μs	85 °C 0.2 m/s	
630 VDC / 400 VAC (2 section)												
LEAD SPACING 22.5 MM												
0.39	13.5	23.0	26.0	22.5		209			10.0	1800	40	PHE450MD6390JR06L2
0.47	13.5	23.0	26.0	22.5		209			10.0	1800	40	PHE450MD6470JR06L2
0.56	15.5	24.5	26.0	22.5		176			12.0	1800	34	PHE450MD6560JR06L2
LEAD SPACING 27.5 MM												
0.22	10.5	20.5	31.5	27.5		216			8.0	1100	38	PHE450MF6220JR06L2
0.27	10.5	20.5	31.5	27.5		216			8.0	1100	38	PHE450MF6270JR06L2
0.33	10.5	20.5	31.5	27.5		216			8.0	1100	38	PHE450MF6330JR06L2
0.39	10.5	20.5	31.5	27.5		216			8.0	1100	38	PHE450MF6390JR06L2
0.47	11.5	22.5	31.5	27.5		198			10.6	1100	35	PHE450MF6470JR06L2
0.56	13.5	23.0	31.5	27.5		171			12.7	1100	34	PHE450MF6560JR06L2
LEAD SPACING 27.5 MM												
0.68	14.5	24.5	31.5	27.5		153			14.5	1100	33	PHE450MF6680JR06L2
0.82	17.5	28.0	31.5	27.5		126			19.7	1100	30	PHE450MF6820JR06L2
1.0	17.5	28.0	31.5	27.5		126			19.7	1100	30	PHE450MF7100JR06L2
1.2	21.0	30.0	31.5	27.5		108			25.3	1100	25	PHE450MF7120JR06L2
LEAD SPACING 37.5 MM												
0.56	13.0	24.0	41.0	37.5		140			16.6	700	29	PHE450MR6560JR06L2
0.68	13.0	24.0	41.0	37.5		140			16.6	700	28	PHE450MR6680JR06L2
0.82	13.0	24.0	41.0	37.5		140			16.6	700	28	PHE450MR6820JR06L2
1.0	15.0	26.0	41.0	37.5		119			20.8	700	27	PHE450MR7100JR06L2
1.2	15.0	26.0	41.0	37.5		119			20.8	700	27	PHE450MR7120JR06L2
1.5	16.5	32.0	41.0	37.5		105			28.1	700	24	PHE450MR7150JR06L2
1.8	19.0	36.0	41.0	37.5		91			36.5	700	20	PHE450MR7180JR06L2
2.2	19.0	36.0	41.0	37.5		91			36.5	700	20	PHE450MR7220JR06L2
2.7	21.0	38.0	41.0	37.5		84			42.5	700	18	PHE450MR7270JR06L2
1000 VDC / 375 VAC (1 section)												
LEAD SPACING 7.5 MM												
0.00033	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450PK3330JR05
0.00039	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450PK3390JR05
0.00047	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450PK3470JR05
0.00056	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450PK3560JR05
0.00068	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450PK3680JR05
0.00082	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450PK3820JR05
0.0010	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450PK4100JR05
0.0012	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450PK4120JR05
0.0015	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450PK4150JR05
0.0018	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450PK4180JR05
0.0022	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450PK4220JR05
0.0027	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450PK4270JR05
0.0033	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450PK4330JR05
0.0039	4.0	8.0	10.0	7.5	1000		1700	1900	0.5	2000	160	PHE450PK4390JR05
0.0047	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	2000	160	PHE450PK4470JR05
0.0056	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	2000	160	PHE450PK4560JR05
0.0068	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	2000	160	PHE450PK4680JR05
0.0082	5.0	11.0	10.0	7.5	1000		1300	1500	0.8	2000	160	PHE450PK4820JR05
0.010	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	2000	160	PHE450PK5100JR05
0.012	6.0	12.0	10.5	7.5	1000		1000	1200	1.0	2000	160	PHE450PK5120JR05
LEAD SPACING 10 MM												
0.0010	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450PA4100JR05
0.0012	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450PA4120JR05
0.0015	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450PA4150JR05
0.0018	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450PA4180JR05

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package				Weight	Max dU/dt V/μs	Rthha °C/W 85 °C 0.2 m/s	Article code
	B	H	L	p	Bulk	Tray	Reel	Ammo	g			
1000 VDC / 600 VAC (2 section)												
LEAD SPACING 10 MM												
0.0022	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450PA4220JR05
0.0027	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450PA4270JR05
0.0033	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450PA4330JR05
0.0039	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450PA4390JR05
0.0047	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450PA4470JR05
0.0056	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450PA4560JR05
0.0068	4.0	9.0	13.0	10.0	1000		900		0.6	1400	142	PHE450PA4680JR05
0.0082	4.5	10.5	13.0	10.0	1000		800		0.9	1400	122	PHE450PA4820JR05
0.010	4.5	10.5	13.0	10.0	1000		800		0.9	1400	122	PHE450PA5100JR05
0.012	5.0	11.0	13.0	10.0	800		700		1.0	1400	116	PHE450PA5120JR05
0.015	6.0	12.0	13.0	10.0	600		500		1.3	1400	105	PHE450PA5150JR05
0.018	6.0	12.0	13.0	10.0	600		500		1.3	1400	105	PHE450PA5180JR05
LEAD SPACING 15 MM												
0.0039	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450PB4390JR06
0.0047	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450PB4470JR06
0.0056	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450PB4560JR06
0.0068	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450PB4680JR06
0.0082	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450PB4820JR06
0.010	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450PB5100JR06
0.012	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450PB5120JR06
0.015	5.5	10.5	18.0	15.0	1000		600		1.5	2500	100	PHE450PB5150JR06
0.018	5.5	12.5	18.0	15.0	1000		600		1.7	2500	90	PHE450PB5180JR06
0.022	5.5	12.5	18.0	15.0	1000		600		1.7	2500	90	PHE450PB5220JR06
0.027	6.5	12.5	18.0	15.0	1000		500		2.0	2500	87	PHE450PB5270JR06
0.033	7.5	14.5	18.0	15.0	800		400		2.7	2500	78	PHE450PB5330JR06
0.039	7.5	14.5	18.0	15.0	800		400		2.7	2500	78	PHE450PB5390JR06
0.047	8.0	15.0	18.0	15.0	600		400		3.0	2500	75	PHE450PB5470JR06
0.056	8.5	16.0	18.0	15.0	600		400		3.4	2500	70	PHE450PB5560JR06
0.068	9.5	17.5	18.0	15.0	500		350		4.2	2500	55	PHE450PB5680JR06
LEAD SPACING 22.5 MM												
0.022	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450PD5220JR06L2
0.027	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450PD5270JR06L2
0.033	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450PD5330JR06L2
0.039	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450PD5390JR06L2
0.047	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450PD5470JR06L2
0.056	6.5	14.5	26.0	22.5		234			3.2	1800	58	PHE450PD5560JR06L2
0.068	7.0	16.5	26.0	22.5		216			3.9	1800	55	PHE450PD5680JR06L2
0.082	8.0	16.0	26.0	22.5		186			4.3	1800	54	PHE450PD5820JR06L2
0.10	9.0	18.5	26.0	22.5		168			5.6	1800	50	PHE450PD6100JR06L2
0.12	9.0	18.5	26.0	22.5		168			5.6	1800	50	PHE450PD6120JR06L2
0.15	10.5	19.0	26.0	22.5		264			6.7	1800	49	PHE450PD6150JR06L2
0.18	11.0	21.5	26.0	22.5		253			8.0	1800	44	PHE450PD6180JR06L2
0.22	13.5	23.0	26.0	22.5		209			10.0	1800	40	PHE450PD6220JR06L2
0.27	15.5	24.5	26.0	22.5		176			12.0	1800	35	PHE450PD6270JR06L2
LEAD SPACING 27.5 MM												
0.15	10.5	20.5	31.5	27.5		216			8.0	1300	38	PHE450PF6150JR06L2
0.18	10.5	20.5	31.5	27.5		216			8.0	1300	38	PHE450PF6180JR06L2
0.22	11.5	22.5	31.5	27.5		198			10.6	1300	36	PHE450PF6220JR06L2
0.27	11.5	22.5	31.5	27.5		198			10.6	1300	36	PHE450PF6270JR06L2
0.33	13.5	23.0	31.5	27.5		171			12.7	1300	35	PHE450PF6330JR06L2
0.39	14.5	24.5	31.5	27.5		153			14.5	1300	34	PHE450PF6390JR06L2
0.47	17.5	28.0	31.5	27.5		126			19.7	1300	30	PHE450PF6470JR06L2
0.56	19.0	29.0	31.5	27.5		117			22.1	1300	28	PHE450PF6560JR06L2
0.68	21.0	30.0	31.5	27.5		108			25.3	1300	25	PHE450PF6680JR06L2

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package				Weight	Max dU/dt	Rthha °C/W 85 °C	Article code
	B	H	L	p	Bulk	Tray	Reel	Ammo	g	V/μs	0.2 m/s	
1000 VDC / 600 VAC (2 section)												
LEAD SPACING 37.5 MM												
0.33	13.0	24.0	41.0	37.5			140		16.6	800	28	PHE450PR6330JR06L2
0.39	13.0	24.0	41.0	37.5			140		16.6	800	28	PHE450PR6390JR06L2
0.47	13.0	24.0	41.0	37.5			140		16.6	800	28	PHE450PR6470JR06L2
0.56	15.0	26.0	41.0	37.5			119		20.8	800	27	PHE450PR6560JR06L2
0.68	16.5	32.0	41.0	37.5			105		28.1	800	25	PHE450PR6680JR06L2
0.82	16.5	32.0	41.0	37.5			105		28.1	800	25	PHE450PR6820JR06L2
1.0	19.0	36.0	41.0	37.5			91		36.5	800	20	PHE450PR7100JR06L2
1.2	19.0	36.0	41.0	37.5			91		36.5	800	19	PHE450PR7120JR06L2
1600 VDC / 650 VAC (2 section)												
LEAD SPACING 15 MM												
0.0027	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450RB4270JR06
0.0033	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450RB4330JR06
0.0039	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450RB4390JR06
0.0047	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450RB4470JR06
0.0056	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450RB4560JR06
0.0068	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450RB4680JR06
0.0082	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450RB4820JR06
0.010	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450RB5100JR06
0.012	5.5	10.5	18.0	15.0	1000		600		1.5	2500	99	PHE450RB5120JR06
0.015	5.5	12.5	18.0	15.0	1000		600		1.7	2500	90	PHE450RB5150JR06
0.018	6.5	12.5	18.0	15.0	1000		500		2.0	2500	88	PHE450RB5180JR06
0.022	6.5	12.5	18.0	15.0	1000		500		2.0	2500	89	PHE450RB5220JR06
0.027	7.5	14.5	18.0	15.0	800		400		2.7	2500	80	PHE450RB5270JR06
0.033	8.0	15.0	18.0	15.0	600		400		3.0	2500	75	PHE450RB5330JR06
0.039	8.5	16.0	18.0	15.0	600		400		3.4	2500	73	PHE450RB5390JR06
0.047	9.5	17.5	18.0	15.0	500		350		4.2	2500	60	PHE450RB5470JR06
0.056	9.5	17.5	18.0	15.0	500		350		4.2	2500	60	PHE450RB5560JR06
LEAD SPACING 22.5 MM												
0.010	6.5	14.5	26.0	22.5			234		3.2	1800	60	PHE450RD5100JR06L2
0.012	6.5	14.5	26.0	22.5			234		3.2	1800	60	PHE450RD5120JR06L2
0.015	6.5	14.5	26.0	22.5			234		3.2	1800	60	PHE450RD5150JR06L2
0.018	6.5	14.5	26.0	22.5			234		3.2	1800	58	PHE450RD5180JR06L2
0.022	6.5	14.5	26.0	22.5			234		3.2	1800	58	PHE450RD5220JR06L2
0.027	6.5	14.5	26.0	22.5			234		3.2	1800	58	PHE450RD5270JR06L2
0.033	6.5	14.5	26.0	22.5			234		3.2	1800	58	PHE450RD5330JR06L2
0.039	6.5	14.5	26.0	22.5			234		3.2	1800	58	PHE450RD5390JR06L2
0.047	7.0	16.5	26.0	22.5			216		3.9	1800	55	PHE450RD5470JR06L2
0.056	7.0	16.5	26.0	22.5			216		3.9	1800	55	PHE450RD5560JR06L2
0.068	9.0	18.5	26.0	22.5			168		5.6	1800	50	PHE450RD5680JR06L2
0.082	9.0	18.5	26.0	22.5			168		5.6	1800	50	PHE450RD5820JR06L2
0.10	10.5	19.0	26.0	22.5			264		6.7	1800	48	PHE450RD6100JR06L2
0.12	11.0	21.5	26.0	22.5			253		8.0	1800	45	PHE450RD6120JR06L2
0.15	13.5	23.0	26.0	22.5			209		10.0	1800	40	PHE450RD6150JR06L2
0.18	13.5	23.0	26.0	22.5			209		10.0	1800	40	PHE450RD6180JR06L2
0.22	15.5	24.5	26.0	22.5			176		12.0	1800	34	PHE450RD6220JR06L2
LEAD SPACING 27.5 MM												
0.082	10.5	20.5	31.5	27.5			216		8	1300	37	PHE450RF5820JR06L2
0.10	10.5	20.5	31.5	27.5			216		8	1300	37	PHE450RF6100JR06L2
0.12	10.5	20.5	31.5	27.5			216		8	1300	37	PHE450RF6120JR06L2
0.15	11.5	22.5	31.5	27.5			198		10.6	1300	36	PHE450RF6150JR06L2
0.18	13.5	23.0	31.5	27.5			153		14.5	1300	35	PHE450RF6180JR06L2
0.22	14.5	24.5	31.5	27.5			153		14.5	1300	35	PHE450RF6220JR06L2
0.27	17.5	28.0	31.5	27.5			126		19.7	1300	32	PHE450RF6270JR06L2
0.33	19.0	29.0	31.5	27.5			117		22.1	1300	28	PHE450RF6330JR06L2
0.39	21.0	30.0	31.5	27.5			108		25.3	1300	25	PHE450RF6390JR06L2

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package				Weight g	Max dU/dt V/μs	Rthha °C/W 85 °C 0.2 m/s	Article code
	B	H	L	p	Bulk	Tray	Reel	Ammo				
1600 VDC / 650 VAC (2 section)												
LEAD SPACING 37.5 MM												
0.18	13.0	24.0	41.0	37.5			140		16.6	800	27	PHE450RR6180JR06L2
0.22	13.0	24.0	41.0	37.5			140		16.6	800	27	PHE450RR6220JR06L2
0.27	13.0	24.0	41.0	37.5			140		16.6	800	27	PHE450RR6270JR06L2
0.33	15.0	26.0	41.0	37.5			119		20.8	800	26	PHE450RR6330JR06L2
0.39	16.5	32.0	41.0	37.5			105		28.1	800	24	PHE450RR6390JR06L2
0.47	16.5	32.0	41.0	37.5			105		28.1	800	24	PHE450RR6470JR06L2
0.56	19.0	36.0	41.0	37.5			91		36.5	800	20	PHE450RR6560JR06L2
0.68	19.0	36.0	41.0	37.5			91		36.5	800	20	PHE450RR6680JR06L2
0.82	21.0	38.0	41.0	37.5			84		42.5	800	18	PHE450RR6820JR06L2
2000 VDC / 700 VAC (2 section)												
LEAD SPACING 15 MM												
0.0010	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4100JR06
0.0012	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4120JR06
0.0015	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4150JR06
0.0018	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4180JR06
0.0022	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4220JR06
0.0027	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4270JR06
0.0033	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4330JR06
0.0039	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4390JR06
0.0047	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4470JR06
0.0056	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4560JR06
0.0068	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450SB4680JR06
0.0082	5.5	12.5	18.0	15.0	1000		600		1.7	2500	92	PHE450SB4820JR06
0.010	6.5	12.5	18.0	15.0	1000		500		2.0	2500	90	PHE450SB5100JR06
0.012	7.5	14.5	18.0	15.0	800		400		2.7	2500	80	PHE450SB5120JR06
0.015	7.5	14.5	18.0	15.0	800		400		2.7	2500	80	PHE450SB5150JR06
0.018	8.0	15.0	18.0	15.0	600		400		3.0	2500	75	PHE450SB5180JR06
0.022	8.5	16.0	18.0	15.0	600		400		3.4	2500	70	PHE450SB5220JR06
0.027	9.5	17.5	18.0	15.0	500		350		4.2	2500	61	PHE450SB5270JR06
LEAD SPACING 22.5 MM												
0.0033	6.5	14.5	26.0	22.5			234		3.2	1800	60	PHE450SD4330JR06L2
0.0039	6.5	14.5	26.0	22.5			234		3.2	1800	60	PHE450SD4390JR06L2
0.0047	6.5	14.5	26.0	22.5			234		3.2	1800	60	PHE450SD4470JR06L2
0.0056	6.5	14.5	26.0	22.5			234		3.2	1800	60	PHE450SD4560JR06L2
0.0068	6.5	14.5	26.0	22.5			234		3.2	1800	60	PHE450SD4680JR06L2
0.0082	6.5	14.5	26.0	22.5			234		3.2	1800	60	PHE450SD4820JR06L2
0.010	6.5	14.5	26.0	22.5			234		3.2	1800	60	PHE450SD5100JR06L2
0.012	6.5	14.5	26.0	22.5			234		3.2	1800	60	PHE450SD5120JR06L2
0.015	6.5	14.5	26.0	22.5			234		3.2	1800	60	PHE450SD5150JR06L2
0.018	6.5	14.5	26.0	22.5			234		3.2	1800	58	PHE450SD5180JR06L2
0.022	6.5	14.5	26.0	22.5			234		3.2	1800	58	PHE450SD5220JR06L2
0.027	7.0	16.5	26.0	22.5			216		3.9	1800	55	PHE450SD5270JR06L2
0.033	7.0	16.5	26.0	22.5			216		3.9	1800	55	PHE450SD5330JR06L2
0.039	8.0	16.0	26.0	22.5			186		4.3	1800	53	PHE450SD5390JR06L2
0.047	9.0	18.5	26.0	22.5			168		5.6	1800	52	PHE450SD5470JR06L2
0.056	10.5	19.0	26.0	22.5			264		6.7	1800	50	PHE450SD5560JR06L2
0.068	11.0	21.5	26.0	22.5			253		8.0	1800	45	PHE450SD5680JR06L2
0.082	11.0	21.5	26.0	22.5			253		8.0	1800	45	PHE450SD5820JR06L2
0.10	13.5	23.0	26.0	22.5			209		10.0	1800	40	PHE450SD6100JR06L2
0.12	15.5	24.5	26.0	22.5			176		12.0	1800	35	PHE450SD6120JR06L2

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package				Weight	Max dU/dt V/μs	Rthha °C/W 85 °C 0.2 m/s	Article code
	B	H	L	p	Bulk	Tray	Reel	Ammo	g			
2000 VDC / 700 VAC (2 section)												
LEAD SPACING 27.5 MM												
0.047	10.5	20.5	31.5	27.5			216		8.0	1300	37	PHE450SF5470JR06L2
0.056	10.5	20.5	31.5	27.5			216		8.0	1300	37	PHE450SF5560JR06L2
0.068	11.5	22.5	31.5	27.5			198		10.6	1300	36	PHE450SF5680JR06L2
0.082	11.5	22.5	31.5	27.5			198		10.6	1300	35	PHE450SF5820JR06L2
0.10	13.5	23.0	31.5	27.5			171		12.7	1300	34	PHE450SF6100JR06L2
0.12	17.5	28.0	31.5	27.5			126		19.7	1300	32	PHE450SF6120JR06L2
0.15	17.5	28.0	31.5	27.5			126		19.7	1300	30	PHE450SF6150JR06L2
0.18	19.0	29.0	31.5	27.5			117		22.1	1300	28	PHE450SF6180JR06L2
LEAD SPACING 37.5 MM												
0.10	13.0	24.0	41.0	37.5			140		16.6	800	27	PHE450SR6100JR06L2
0.12	13.0	24.0	41.0	37.5			140		16.6	800	27	PHE450SR6120JR06L2
0.15	15.0	26.0	41.0	37.5			119		20.8	800	26	PHE450SR6150JR06L2
0.18	15.0	26.0	41.0	37.5			119		20.8	800	26	PHE450SR6180JR06L2
0.22	16.5	32.0	41.0	37.5			105		28.1	800	24	PHE450SR6220JR06L2
0.27	19.0	36.0	41.0	37.5			91		36.5	800	20	PHE450SR6270JR06L2
0.33	21.0	38.0	41.0	37.5			84		42.5	800	18	PHE450SR6330JR06L2
0.39	21.0	38.0	41.0	37.5			84		42.5	800	18	PHE450SR6390JR06L2
2500 VDC / 900 VAC (3 section)												
LEAD SPACING 15 MM												
0.0010	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450TB4100JR06
0.0012	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450TB4120JR06
0.0015	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450TB4150JR06
0.0018	5.5	10.5	18.0	15.0	1000		600		1.5	2500	98	PHE450TB4180JR06
0.0022	5.5	12.5	18.0	15.0	1000		600		1.7	2500	92	PHE450TB4220JR06
0.0027	6.5	12.5	18.0	15.0	1000		500		2.0	2500	90	PHE450TB4270JR06
0.0033	7.5	14.5	18.0	15.0	800		400		2.7	2500	80	PHE450TB4330JR06
0.0039	7.5	14.5	18.0	15.0	800		400		2.7	2500	80	PHE450TB4390JR06
0.0047	8.0	15.0	18.0	15.0	600		400		3.0	2500	75	PHE450TB4470JR06
0.0056	8.5	16.0	18.0	15.0	600		400		3.4	2500	70	PHE450TB4560JR06
0.0068	8.5	16.0	18.0	15.0	600		400		3.4	2500	70	PHE450TB4680JR06
0.0082	9.5	17.5	18.0	15.0	500		350		4.2	2500	60	PHE450TB4820JR06
LEAD SPACING 22.5 MM												
0.0047	6.5	14.5	26.0	22.5			234		3.2	1800	60	PHE450TD4470JR06L2
0.0056	6.5	14.5	26.0	22.5			234		3.2	1800	60	PHE450TD4560JR06L2
0.0068	6.5	14.5	26.0	22.5			234		3.2	1800	60	PHE450TD4680JR06L2
0.0082	7.0	16.5	26.0	22.5			216		3.9	1800	55	PHE450TD4820JR06L2
0.010	8.0	16.0	26.0	22.5			186		4.3	1800	53	PHE450TD5100JR06L2
0.012	9.0	18.5	26.0	22.5			168		5.6	1800	52	PHE450TD5120JR06L2
0.015	9.0	18.5	26.0	22.5			168		5.6	1800	52	PHE450TD5150JR06L2
0.018	10.5	19.0	26.0	22.5			264		6.7	1800	50	PHE450TD5180JR06L2
0.022	11.0	21.5	26.0	22.5			253		8.0	1800	45	PHE450TD5220JR06L2
0.027	13.5	23.0	26.0	22.5			209		10.0	1800	45	PHE450TD5270JR06L2
0.033	15.5	24.5	26.0	22.5			176		12.0	1800	35	PHE450TD5330JR06L2
0.039	15.5	24.5	26.0	22.5			176		12.0	1800	35	PHE450TD5390JR06L2